



LABNOTE SMALL ANGLE MEASUREMENTS USING THE STOE STADI P STANDARD SETUP

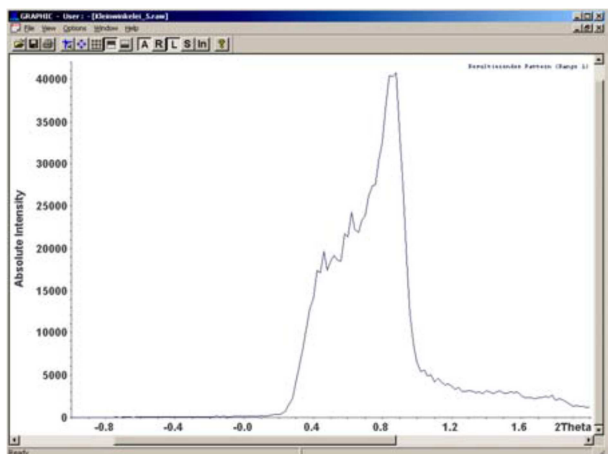
SETUP

Sample:	Mesoporous SiO ₂ , possibly containing least parts of the copolymer.
Experiment:	STOE STADI P diffractometer in Debye-Scherrer mode.
Detector:	linear PSD
Angle region:	$\Delta 2\theta = -2.0 - 4.0^\circ$
Stepwidth:	stationary PSD
Time / step:	t = 120 s

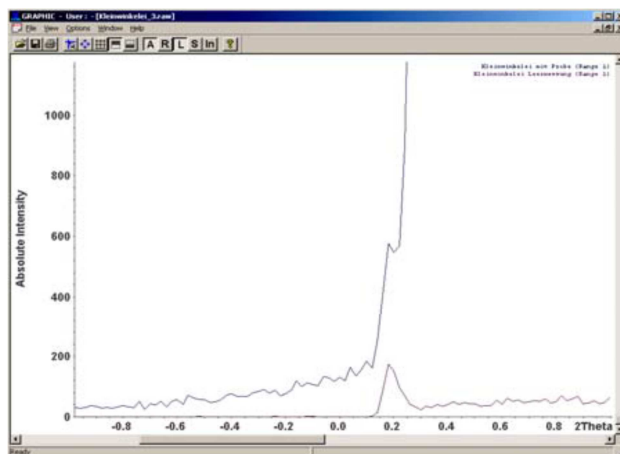
RESULTS

Two measurements using the same settings had been accomplished, one with the sample material and the other with an empty sample holder. The latter had been subtracted from the first, to eliminate effects of the primary beam.

It is admirable to see that small angle measurements down to 0.2° 2θ (using Cu $K_{\alpha 1}$ -radiation) or appr. d-values of 440 Å can be executed with a **STOE STADI P** without any further equipment like i.e. a Kratky collimator etc.



This left pattern presents the resulting curve.



This is a closer view on the range from -1 to 1° containing both curves as measured.